

Appl. No. 10/442,408
Amendment Date: December 20, 2004
Reply to Office Action of September 21, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application:

Claim 1 (currently amended): A system for controlling the stowage of a display assembly of an on-board entertainment system, comprising:
an actuator for intended movement of said display assembly;
a clutch mechanically coupled to said actuator; and
a sensor for sensing relative position of said display assembly; and
logic means coupled to said actuator and sensor; wherein
upon movement of a deployed display assembly beyond a predetermined limit, the sensor provides a signal to said logic means which in turn activates said actuator to retract said display assembly.

Claim 2 (original): The system of Claim 1, wherein the clutch is comprised of an outer element having an integrated stop, an inner element having a region for engaging said stop, and biasing means for providing resistance of movement of the clutch outer element.

Claim 3 (original): The system of Claim 2, wherein the biasing means is a spiral torsion spring.

Claim 4 (cancelled).

Claim 5 (original): The system of Claim 1, wherein the actuator device is an electric motor.

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Claim 6 (original): The system of Claim 1, further comprising an indicator plate affixed to said clutch outer element.

Claim 7 (original): The system of claim 1, wherein the sensor is an optical sensor.

Claim 8 (original): The system of claim 1, wherein the sensor is a mechanical device.

Claim 9 (original): A retractor assembly for controlling the movement of a display assembly of an on-board entertainment system, comprising:
an actuator rigidly affixed to a vehicle having an on-board entertainment system;
a clutch assembly mechanically coupled to said actuator and to the display;
an indicator plate affixed to said clutch assembly;
a sensor for sensing relative position of said indicator plate; and logic coupled to said actuator and sensor;
wherein upon the movement of the indicator plate beyond a predetermined limit, the sensor provides a signal to said logic means which in turn activates a said actuator to attract said display assembly.

Claim 10 (original): The system of Claim 9, wherein the clutch is comprised of an outer element having an integrated stop, an inner element having a region for engaging said stop, and a biasing means, within the outer element and inner element for providing resistance of movement of the clutch outer element.

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Claim 11 (original): The system of Claim 10, wherein the biasing means is a spiral torsion spring.

Claim 12 (original): The system of Claim 9, wherein the actuator device is an electric motor.

Claim 13 (original): The system of Claim 9, further comprising an indicator plate affixed to said clutch outer element.

Claim 14 (original): The system of Claim 9, wherein the sensor is an optical sensor.

Claim 15 (original): The system of Claim 9, when the sensor is a mechanical device.

Claim 16 (original): A method for controlling the movement of an on-board entertainment system display assembly having a retractor motor, clutch assembly, and movement sensor, comprising the steps of: activating the retractor motor in a first direction in response to a deploy command from the on-board entertainment system; monitoring, via the sensor, the relationship of various components of the clutch assembly, representative of an unintended force contacting the display assembly; and activating the retractor motor in a second direction, in order to store the display assembly.

Claim 17 (cancelled).

Claim 18 (cancelled).